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Fig. 1

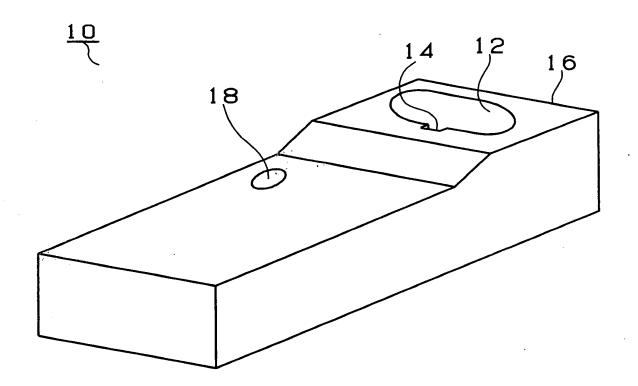


Fig. 2

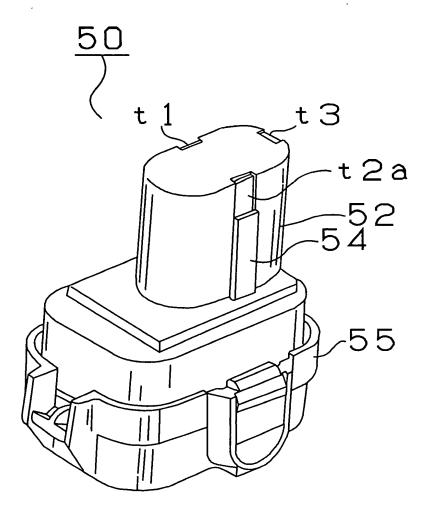


Fig.3

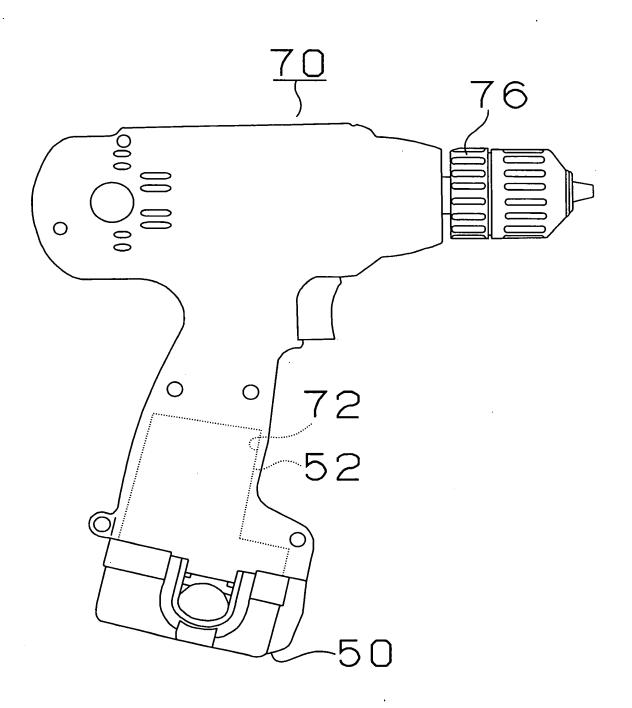
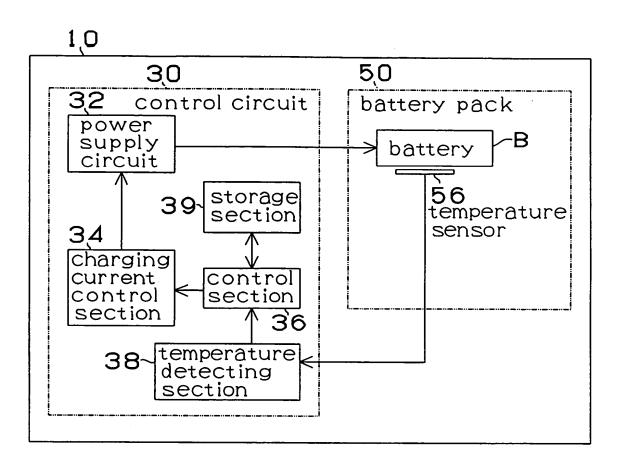


Fig. 4



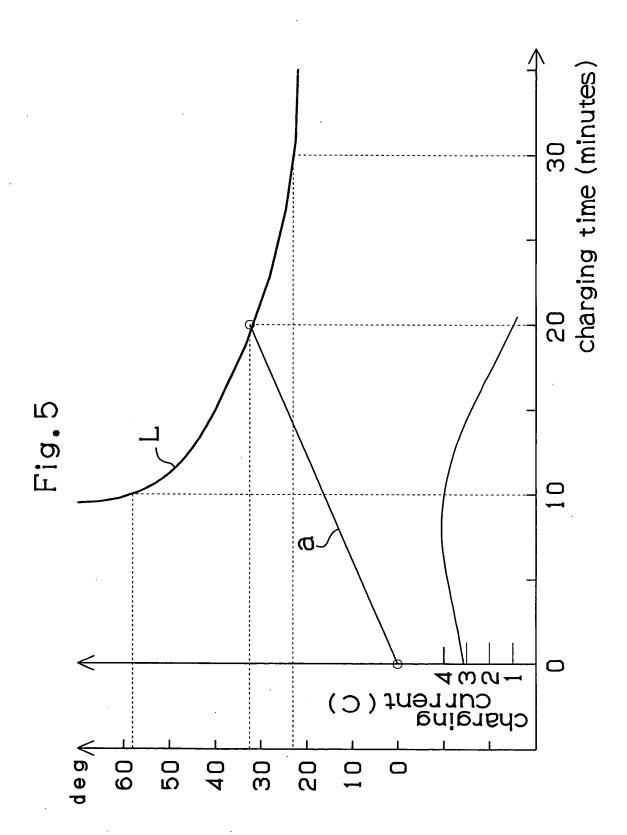


FIG. 6

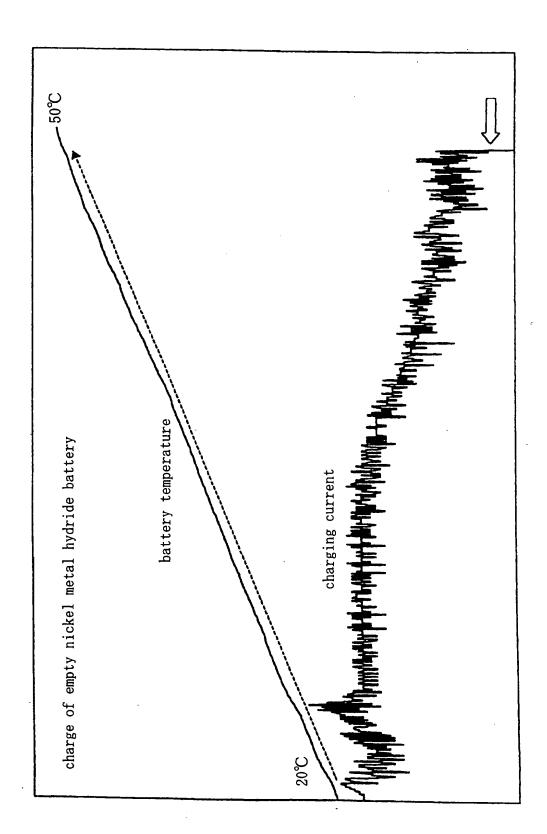
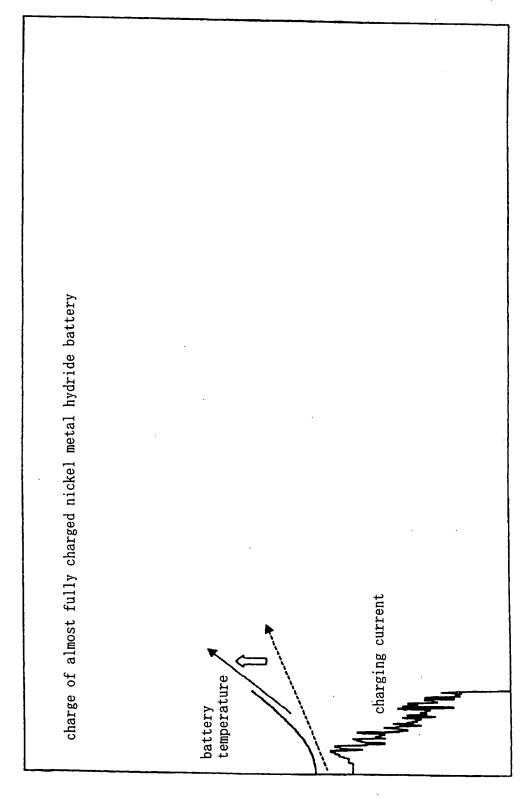
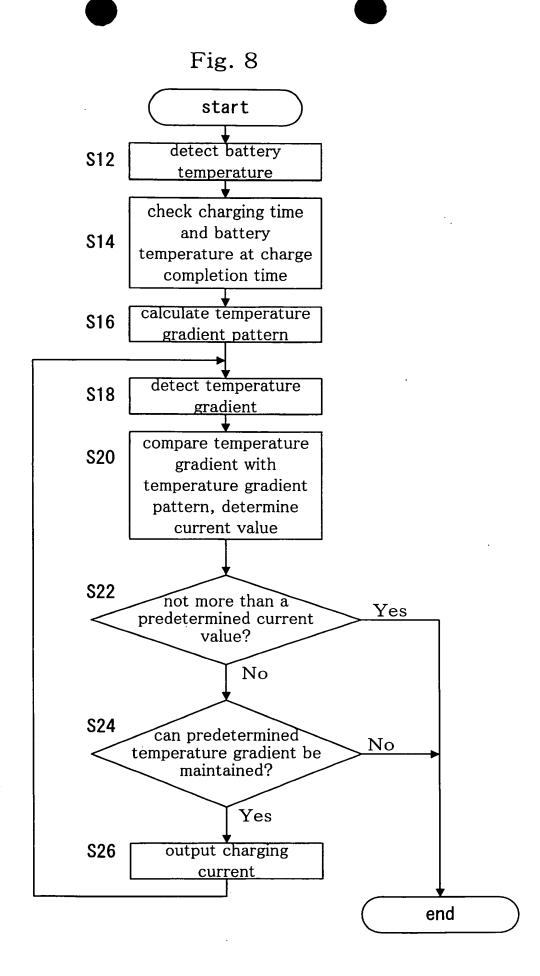
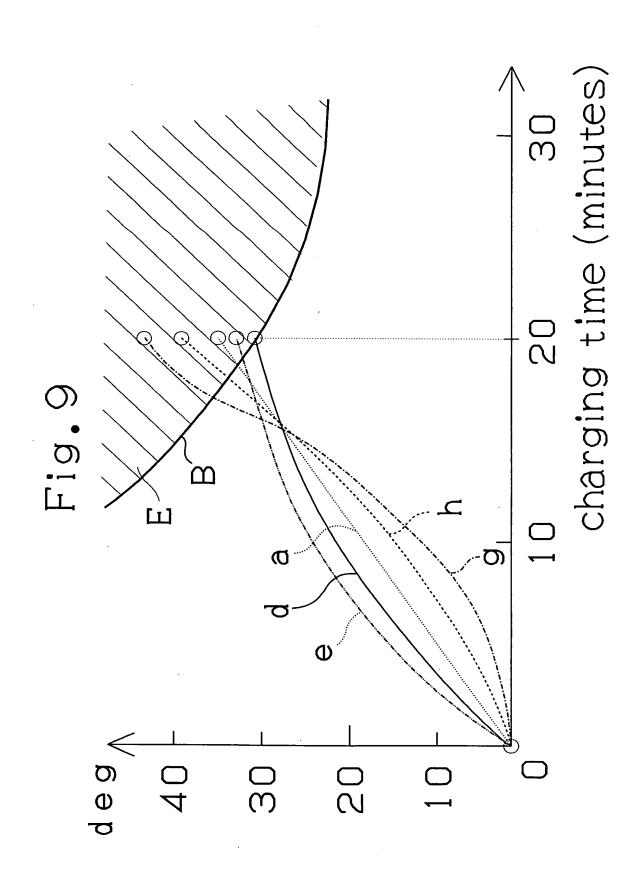


FIG. 7



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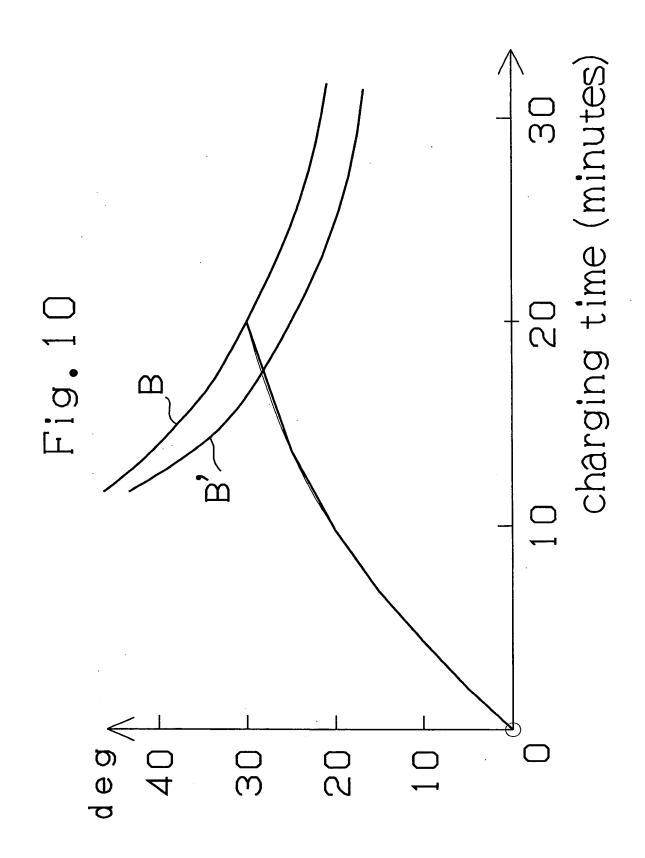


Fig. 11

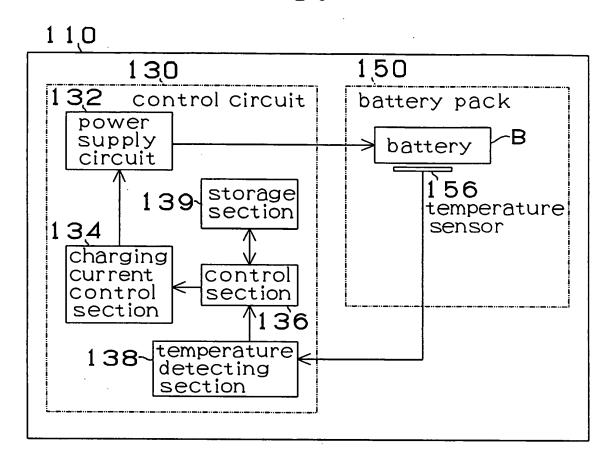
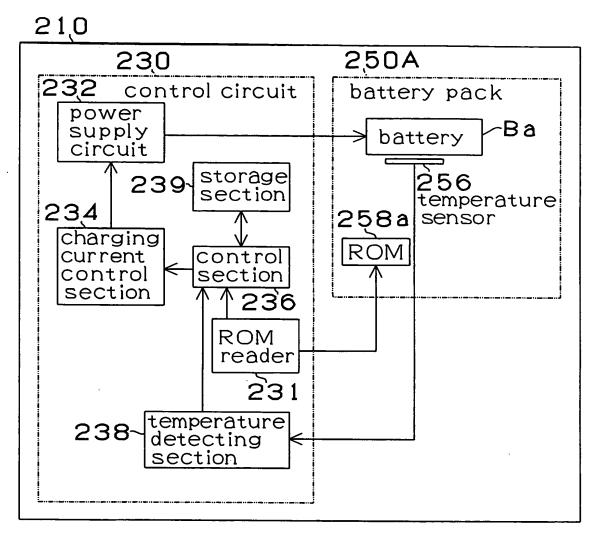


Fig. 12 start detect battery **S112** temperature check charging time and battery **S114** temperature at charge completion time calculate temperature **S116** gradient pattern detect temperature **S118** gradient compare temperature **S120** gradient with temperature gradient pattern, determine current value **S122** not more than a Yes predetermined current value? No **S124** can predetermined No temperature gradient be maintained? Yes output charging **S126** current end

Fig. 13



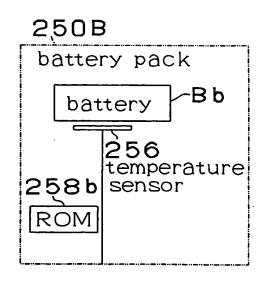


Fig. 14 start detect battery S212 <u>temperature</u> read out coefficients of S213 target temperature value which battery is intended to reach check charging time **S214** and battery temperature at charge completion time calculate temperature **S216** gradient pattern detect temperature S218 gradient compare temperature gradient with **S220** temperature gradient pattern, determine current value S222 not more than a Yes predetermined current value? No **S224** can predetermined No temperature gradient be maintained? Yes output charging **S226** current end

